

CLAIMS

1. A thermoplastic elastomer composition comprising:
  - (a) 5-95 weight % of an oil free elastomer
  - (b) 95-5 weight% of a polyolefin composition comprising from 20 to 50 parts by weight of a crystalline polyolefinic polymer and 50 to 80 parts by weight of an elastomeric olefinic copolymer whereby the total parts by weight is 100.
2. A thermoplastic elastomer composition according to claim 1 comprising 0,02-10 weight % of a cross linking agent optionally with co-agent whereby the total weight of (a), (b) and the cross linking agent is 100.
3. A thermoplastic elastomer composition according to claim 2 characterised in that the cross linking agent is chosen from a peroxide, hydrosilane or phenolic resins.
4. A thermoplastic elastomer composition according to any one of the claims 1-3 characterised in that the oil free elastomer (a) is chosen from EPM, EPDM or a mixture of EPM and EPDM.
5. A thermoplastic elastomer composition according to any one of the claims 1-4 characterised in that the polyolefin composition (b) comprises a polypropylene homopolymer or propylene copolymer as crystalline polyolefinic polymer and an ethylene copolymer with olefins having the formula  $\text{CH}_2=\text{CHR}$  in which R is an alkyl having 1-10 carbon atoms as elastomeric olefinic copolymer.
6. A thermoplastic elastomer composition according to any one of the claims 1-5 characterised in that the composition comprises a styrene based polymer whereby the total weight of the thermoplastic elastomer composition is 100.
7. A thermoplastic elastomer composition according to any one of the claims 1-6 characterised in that the composition comprises 2-50 weight % of a styrene based polymer whereby the total weight of the thermoplastic elastomer composition is 100.
8. A thermoplastic elastomer composition according to any one of the claims 6-7 characterised in that the styrene-based polymer is chosen from SBS, SEBS or SEPS.
9. A thermoplastic elastomer composition according to any one of the claims 1-8 characterised in that the co-agent is 1,2-polybutadiene.
10. Articles comprising the thermoplastic elastomer composition according to any one of claims 1-9.

- 5      11.      Use of the thermoplastic elastomer composition according to claims 4-9 in food packaging, industrial applications, consumer applications, medical applications, seals, auto interior parts and low fogging applications as for example airbags and dashboards.